

Title (en)

JOINED PROFILE SECTIONS, APPARATUS AND METHOD FOR JOINING PROFILE SECTIONS

Title (de)

VERBUNDENE PROFILE, VORRICHTUNG UND VERFAHREN ZUM VERBINDEN VON PROFILEN

Title (fr)

SECTIONS PROFILEES RACCORDEES, APPAREIL ET PROCEDE POUR REUNIR DES SECTIONS A PROFIL

Publication

**EP 1284852 B1 20040616 (EN)**

Application

**EP 01917387 A 20010410**

Priority

- GB 0012652 A 20000524
- GB 0027981 A 20001116
- IB 0100596 W 20010410

Abstract (en)

[origin: WO0189811A1] Two profile sections (5,6), such as two sealing, trimming or finishing strips for use in motor vehicle body construction, are joined together end to end by use of a heat-sensitive foil (24) such as made of thermoplastics material. The profile sections (5, 6) are clamped in respective retaining devices (18, 20) and the foil (24) is unwound from a roll (22) into position between the facing ends of the profile sections. Heaters (26, 28) are moved into position for heating the foil (24) and the ends of the profile sections and are then withdrawn. The two retaining devices (18, 20) are then moved towards each other so as to move the ends of the two profile sections into contact with opposite sides of the heated foil (24) which thus heat-bonds the end of the profile sections together. The foil (24) is provided with a plurality of through slits (24A) (or is in some other way rendered air-permeable) so that air can pass from one profile section to the other, through the bonded foil (24), in use of the joined profile sections (e.g. when they are fitted in position or when they are partially compressed to carry out a sealing function), thus preventing pressure build-up and possible bursting of the joint.

IPC 1-7

**B29C 65/40**; **B29C 65/50**

IPC 8 full level

**B60J 10/75** (2016.01); **B29C 65/14** (2006.01); **B29C 65/18** (2006.01); **B29C 65/50** (2006.01); **B60J 10/84** (2016.01); **B29L 31/30** (2006.01)

CPC (source: EP US)

**B29C 65/1432** (2013.01 - EP US); **B29C 65/1467** (2013.01 - EP US); **B29C 65/4815** (2013.01 - EP US); **B29C 65/5057** (2013.01 - EP US); **B29C 65/5092** (2013.01 - EP US); **B29C 65/7841** (2013.01 - EP US); **B29C 66/1142** (2013.01 - EP US); **B29C 66/5241** (2013.01 - EP US); **B29C 66/72523** (2013.01 - EP US); **B29C 66/71** (2013.01 - EP US); **B29C 2793/0045** (2013.01 - EP US); **B29K 2021/00** (2013.01 - EP US); **B29K 2995/0065** (2013.01 - EP US); **B29L 2031/003** (2013.01 - EP US); **B29L 2031/26** (2013.01 - EP US); **B29L 2031/302** (2013.01 - EP US); **B29L 2031/709** (2013.01 - EP US); **Y10T 428/139** (2015.01 - EP US); **Y10T 428/192** (2015.01 - EP US)

C-Set (source: EP US)

**B29C 66/71** + **B29K 2021/00**

Cited by

DE102005029761A1; EP1743758A3; EP3766673A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 0189811 A1 20011129**; AT E269203 T1 20040715; AU 4446301 A 20011203; CN 1258440 C 20060607; CN 1441719 A 20030910; CZ 20023695 A3 20030416; DE 60103891 D1 20040722; DE 60103891 T2 20050707; EP 1284852 A1 20030226; EP 1284852 B1 20040616; ES 2220745 T3 20041216; JP 2003534185 A 20031118; US 2003155341 A1 20030821; US 6790498 B2 20040914

DOCDB simple family (application)

**IB 0100596 W 20010410**; AT 01917387 T 20010410; AU 4446301 A 20010410; CN 01810013 A 20010410; CZ 20023695 A 20010410; DE 60103891 T 20010410; EP 01917387 A 20010410; ES 01917387 T 20010410; JP 2001586031 A 20010410; US 27577803 A 20030422